Please amend the claims as follow: Please delete claims 1-7 per the Examiners helpful suggestions and add claims 8 - 11.

## Claims 1-7 (canceled)

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Claim 8 (new): The method for the detection of Prostate Specific Antigen the analyte of interest in a sample, wherein the sample is selected from the group consisting of urine, serum, whole blood, cerebral spinal fluid, gastric fluid, sweat extracts, hair homogenates, or saliva consisting essentially of using nucleounits targeted to Prostate Specific Antigen, identifying a nucleounit from a mixture of synthetic random sequences of nucleounit libraries, contacting the analyte with said mixture, removing the unbound nucleounits by partitioning, amplifying the remaining nucleounits by PCR, conjugating the nucleounits to an indicator and then using the nucleounit indicator conjugate for detecting the presence of Prostate Specific Antigen by;

- (A) placing the reagent consisting essentially of an nucleounit indicator conjugate and a buffer in the reagent compartment of a chemistry autoanalyzer, aliquoting samples, calibrators, and controls into sample cups and placing them on the chemistry autoanalyzer;
- (B) and transferring aliquots of each sample, calibrator, and control into single discrete cuvettes mounted within the chemistry autoanalyzer; and
- (C) aliquoting the said reagent into each cuvette and mixing; and
- (D) incubating the reaction mixture; and
- (E) measuring and recording absorbance values of the reaction mixtures with the chemistry autoanalyzer's spectrophotometer at 340 nm to 800 nm at preprogrammed time intervals; and

(F) comparing absorbance values of samples and controls to those of calibrators in the form of a standard curve thereby quantitating the prostate specific antigen present without the use of nucleic acid ligands.

Claim 9 (new): The method according to claim 8 wherein said nucleounit indicator conjugate can be selected from the group consisting of 4-Aminophenyl-beta-Dgalactopyranoside, 3-indoxyl-beta-D-galactopyranoside (blue), 5-Bromo-4-chloro-3indoxyl-beta-D-galactopyranoside (blue), 5-Bromo-3-indoxyl-beta-D-galactopyranoside (blue), 6-chloro-3-indoxyl-beta-D-galactopyranoside (salmon), 5-bromo-6-chloro-3indoxyl-beta-D-galactopyranoside (Magenta- beta- D-Gal) 6-Fluoro-3-indoxyl-beta-Dgalactopyranoside, 8-Hydroxyquinoline-beta-D-galactopyrano-side, 5-lodo-3-indoxyl-2-Nitrophenyl-beta-D-galactopyranoside. beta-D-galactopyranoside (purple), Nitrophenyl-beta-D-galactopyranoside, Naphthol AS-BI-beta-D-galactopyranoside, 2-Naphthyl-beta-D-galactopyranoside (yellow), 4-Methylumbelliferyl-beta-D-glucuronic acid, galactosidase, beta-D-Galactosidase, Iodo-3-indoxyl-beta-D-galactopyranoside, alpha-L-Galactosidase, Iodo-3-indoxyl-alpha-L-galactopyranoside, beta-D-Cellobiosidase, 5-Bromo-4-chloro-3-indoxyl-beta-D-cellobioside, 5-Bromo-6-chloro-3-4-Nitrophenyl-beta-D-cellobioside, I-Naphthylindoxyl-beta-D-cellubioside, cellobioside, 4-Methylumbelliferyl-beta-D-cellobioside, glycosidases, galactosidase, Fucosidase, Galactosaminidase, Glucosaminidase, gellobiosidase, Arabinosidase, Glucosidase, Glucuronidase, Lactosidase, Maltosidase, Mannosidase, Xylosidase, arabinopyranoside, Fucopyranoside, Galactosaminide, Glucosaminide, Glucopyranoside, Glucuronic acid, Lactopyranoside, Maltopyranoside, Mannopyranoside, Xylopyranoside, 5-Bromo-4-chloro-3-indoxyl, 5-Bromo-6-chloro-3-indoxyl, 6-chloro-3-indoxyl, Bromo-3-indoxyl, 5-Iodo-3-indoxyl, 3-indoxyl, 2-(6-Bromonaphthyl), 6-Fluoro-3indoxyl 2-Nitrophenyl, 4-Nitrophenyl, 1-Naphthyl, Naphthyl AS-BI, 2-Nitrophenyl-Nacetyl, 4-Nitrophenyl-N-acetyl, 4-Methylumbelliferyl moieties, esterases, Carboxyl esterase, Cholesterol esterase, sulfatases, Aryl sufatase, phosphatases, Alkaline phosphatase, Carboxyl esterase, 6-chloro-3-indoxyl butyrate, Aryl sulfatase, 5-bromo-4chloro-3-indoxyl sulfate, alkaline phosphatase 2-naphthyl, dehydrogenase, oxidase, hydroxylase, oxidoreductase, dehydrogenases, hydroxylases, a-NAD, nicotinamide adenine dinucleotide, nicotinamide adenine dinucleotide 3'-phosphate, nicotinamide adenine dinucleotide phosphate, triphosphopyridine, nicotinamide 1-N1-ethenoadenine dinucleotide phosphate, nicotinamide hypoxanthine dinucleotide, nicotinamide hypoxanthine dinucleotide phosphate, nicotinamide mononucleotide, nicotinamide N1propylsulfonate, nicotinamide ribose monophosphate, Formaldehyde dehydrogenase, Fructose dehydrogenase, Glucose-6-phosphate dehydrogenase, Glucose dehydrogenase, Glutamate dehydrogenase, Glycerol dehydrogenase, Glycerol-3-phosphate dehydrogenase, hydroxybutyrate dehydrogenase, Hydroxybenzoate hydroxylase, Lactate Leucine dehydrogenase, Malate dchydrogenase, dehydrogenase, dehydrogenase, oxidases, Acyl-CoA oxidase, alcohol oxidase, ascorbate oxidase, Cholesterol oxidase, Choline oxidase, Glucose oxidase, Glycerophosphate oxidase, Xanthine oxidase, Uricase, peroxidase, pyrogallol, ABTS (2,2'-Azinobis(3ethylbenzthiazoline) sulfonic acid), 3,3',5,5'-Tetramethylbenzidine, ortho-Dianisidine, 3,3'-Diaminibenzidine, AEC (3-Amino-9-ethyl carbazole), 2-5, dimethyl-2,5dihydroperoxyhexane, Bis{4-[N-(3'-sulfo-n-propyl)-N-n-ethyl]amino-2,6-N-Ethyl-N-(2-bydroxy-3-sulfopropyl)-3dimethylphenyl}methane (Bis-MAPS), methoxyaniline (ADOS), N-Ethyl-N-(3-sulfopropyl)-3-methoxyaniline (ADPS), N-Ethyl-N-(2-hydroxy-3-sulfopropyl)aniline N-Ethyl-N-(3-sulfopropyl)-3,5-(ALOS), N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3-methylaniline dimethylaniline (MAPS), (TOOS), N-Ethyl-N-(3-sulfopropyl)-3-methylaniline (TOPS), N (3 sulfopropyl)aniline (HALPS), N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5-dimethoxy- aniline (DAOS), N-Ethyl-N-(3-sulfopropyl)-3,5-dimethoxyaniline (DAPS), N-Ethyl-N-(3-sulfopropyl)aniline N-(2-hydroxy-3-sulfopropyl)-3,5-dimethoxyaniline (HDAOS), N(3)(ALPS), sulfopropyl)-3,5-dimethoxyaniline (HDAPS), N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5dimethylaniline (MAO), and N,N-Bis(4-sulfobutyl)-3,5-dimethylaniline (MADB). 3-Methyl-2-benzothiazolinonehydrazone, Dimerhylaniline, 4-aminoantipyrine, phenol, 2,4-N,N-Diethyl-m-toluidine, p-Hydroxybenzene Sulfonate. Dichlorophenol, Dimethylaniline, 3,5-Dichloro-2-Hydroxybenzenesulfonate, Sodium N-Ethyl-N-(3-Sulfopropyl)-m-Auisidine, N-Ethyl-N-(2-hydroxy-3-Sulfopropyl)-m-toluidine, NADPH oxidoreductase, NADPH, oxidoreductase, and NBT (nitro blue tetrazolium).

Claim 10 (new): The method according to claim 8 wherein said buffer can be selected from the group consisting of citrate, borate, phosphate, borax, sodium tetrabonate decahydrate, sodium perchlorate, sodium chlorate, sodium carbonate, TRIS (Tris[hydroxymethyl]aminomethane), MES (2-[N-Morpholino]ethanesulfonic acid), BIS-TRIS (bis[2-Hydroxyethyl]iminotris[hydroxymethyl]methane;2-bis[2-Hydroxyethyllamino-2-[hydroxymethyl-1,3-propanediol), ADA (N-[2-Acetamidol]-2iminodiacetic acid; N-[Carbaoylmethyl]iminodiacetc acid), ACES (2-[(2-Amino-2oxocthyl)amino ethanesulfonic acid; N-[2-Acetamido]-2-aminoethanesulfonic acid), PIPES (PiperazineN-N'-bis[2-ethanesulfonic acid)]; 1,4-Piperzinedethanesulfoic acid), MOPSO (3-[N-Morpholinol]-2-hydroxypropanesulfonic acid), BIS-TRIS PROPANE (1,3-bis[tris(Hydroxymethyl)methylamino]propane), BES (N,N-bis[2-Hydroxyethyl]-2aminoethaesulfonic acid; 2-bis(2-Hydroxyethyl)amino]ethanesulfonic acid), MOPS (3-[N-Morpholino]propanesulfonic acid), TES (N-tris[Hydroxymethyl]methyl-2aminomethonesulfonic acid: 2[2-11ysroxy-1,1-bis(hydroxymethyl)ethyllamino)ethanesulfonic acid), HEPES (N-[2-Hydroxyethyl]piperazine-N'-[2-DIPSO (3-[N,N-bis(2-Hydroxyethyl)amino]-2ethanesulfonic acid1), hydroxypropanesulfonic acid), TAPSO (3 [N-tris(Hydroxyethyl)methylamino]-2-**HEPPSO** (N-[2-Hydroxythyl]piperazine-N'hydroxypropanesulfonic acid), (Piperazine-N,N'-bis[2acidl). POPSO [2Hydroxypropanesulfonic (N-[2-Hydroxyethyl]piperazine-N'-[3hydroxypropanesulfonic acid]), **EPPS** acid), **TEA** (triethanolamine), TRICINE (Npropanesulfonic tris[Hydroxymethyl]methyllycine; N-[2-Hydroxy-1-1-bis(hydroxymethyl)etyyl]glycine), BICINE (N,N-bis[2-Hydroxyethyl]glycine), TAPS (N-tris[Hydroxymethyl]methyl-3-([2-Hdroxy-1,1-bis(hydroxymethyl)ethyl]amino)-1acid; aminopropanesulfonic (3-[(1,1-Dimethyl-2-hydroxyethyl)amino]-2acid). **AMPSO** propanesulfonic hydroxypropanesulfonic acid), CHES (2-[N-Cyclohexylamino]ethanesulfonic acid), CAPSO (3-[Cyclohexylamino]-2-hydroxy-1-propanesulfonic acid), AMP 2-Amino-2ethyl-1-propanol, CAPS (3-[cyclohexylamino]-1-propanesulfonic acid), hydrochloric acid, phosphoric acid, lactic acid, sulfuric acid, nitric acid, chromic acid, horic acid, perchloric acid, potassium hydrogen tartrate, potassium hydrogen phthalate, calcium

hydroxide, phosphate, bicarbonate, sodium hydroxide, potassium hydroxide, oxalate or succinate.

Claim 11 (new): The method according to claim 8 wherein said analyte of interest can be selected from the group consisting of cocaine, opiates, gamma-hydroxybutyric acid, benzodiazepines. acetaminophen. cannabinoids. amikacin. aminocaproic amitriptyline, amobarbital, amphetamine, bromide, caffeine, carbamazepine. carbenicillin, chloral hydrate, chloramphenicol, chlordiazepoxide, chlorpromazine, cimetidine, clonazepam, clonidine, clorazepate, cocaine, cocaine metabolites, ethanol, methanol, codeine, cyclosporine, desipramine, dexamethsone, diazepam, digoxin, diphenylhydantoin, disopyramide, doxepin, ephedrine, ethehlorvynol, ethosuximide, fenoprofen, flecainide, flurazepam, gentamicin, glutethimide, hydromorphone, ibuprofen, imipramine, isoniazid, kanamycin, lidocaine, lithium, lorazepam, lysergic acid, meperidine, meprobamate, methadone, methamphetamine, methaqualone, methotrexate, methsuximide, methyldopa, methyprylon, morphine, n-acetylprocainamide, netilmicin, nortriptyline, oxazepam, oxycodone, paraldehyde, paraquat, pentazocine, pentobarbital, phonobarbital, phensuximide, phenylbutazone, phenacetin. phencyclidine, phenylpropanolamine, phenytoin, primidone, procainamide, propoxyphene, propranolol, protripyline, quinidine, salicylates, secobarbital, theophylline, thiocynate, thiopental, thioridazine, tobramycin, tolbutamide, valproic acid, vancomycin, cholesterol, triglycerides, glucose, adrenocortocotropic hormone, alanine, alanine aminotransferase, albumin, aldolase, aldosterone, amylase, amyloid-associated protein, androstenedione, angiotenesis, antidiuretic hormone, antithrombin, antitrypsin, apolipoprotein, ascorbic acid, bile acids, bilirubin, c-peptide, calcitonin, calcium, cancer antigen 125, carboxyhemoglobin, carotene, catecholamines, cholic acid, cholyglycine, chromium, chymotrypsin, complement components, coproporhyrin, corticobinding globulin, corticosterone, cortisol, c-peptide, c-reactive protein, creatine, creatinine, creatine kinase, cyclic AMP, cystine, cysteine, dehydrocpiandrosterone, dehydrocpiandrosterone sulfate, deoxycholic acid, 11-deoxycortocosterone, 11-deoxycortisol, dihydrotestosterone, estradiol, estriol, estrogen, estrone, fecal fat, fatty acids, ferritin, fetoprotein, fibrinogen, folate, follicle stimulating hormone, thyroxine, triiodothyronine, fructose, fructosamine,

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galactose, gastric acid, gastrin, glucagons, glucose-6-phosphate, glutamine, glutamyltransferase (GGT), glutathione, hemoglobin, glycerol, glycine, glycolic acid, gonadptropins, growth hormone, haptoglobin, high-density lipoproteins. gold. hemopexin, hemocystein, homocysteine, homogentisic acid, homovanillic acid, hydrogen sulfide, 17-hydroxycortocosteriods, 5-hydroxyindoleacetic acid, 17-hydroxygrogesterone, hydroxyproline, immunoglobins, insulin, iron, isocitrate dehydrogenase, isoleucine, 17ketogenic steroids, ketone bodies, lactate, lactate dehydrogenase, lactose, LDLcholesterol, lecithin, leucine, leukocyte, lipase, lipoproteins, lutropin, lysozyme, macroamylase, magnesium, melanin, metanephrine, methionine, metyrapone, microsomal antibodies, antibodies, molybdenum, mucoploysaccharide, myelin basic protein. myoglobin, methemoglobin, niacin, nickel, nitrite, nitrogen, nonprotein nitrogen, normetanephrine, blood, orosomucoid, oxalate, oxytocin, pancreatice polypoptide, pantothenic acid, parathyroid hormone, pentachloropehnol, pentoses, pepsinogen, phenols, phenolsulforphthalein, phenylalanino, acid phosphatase, alkaline phosphatase. phosphofructokinase, phospholipids, placental lactogen, plasminogen, porphobilinogen, prealbumin, pregnancdiol, chorionic gonadotropin, pregnanctriol, pregnanclone, progesterone, porinsulin, properdin, prostaglandins, portoporphyrin, pseudocholinesterase, pyruvic acid, renin, reverse triiodothyromine, rheumatoid factor, riboflavin, secretin, selenium, serotouin, somatomedin c, sucrose, testosterone, tetrahydrocortisol, tetrchydrodeoxycortisol, thallium, thyroglobin, thyroid antibodies, thyroid stimulating hormone, thyroxine binding globulin, thyroxine, transcortin, transferring, transketolase, transthyretin, thyrotropin-releasing hormone, triglycerides, triiodothryonine, tyrosine, urea, urea nitrogen, uric acid, uricase, urobilinogen, uroporphyrin, valine, vanillymandelic acid, vasoactive intestinal polypetide, human chorionic gonadotropin, mass creatinine kinase, vitamins, xylose, zinc, cyanide, formaldchyde, ethylene glycol, lead, mercury, xylene, human immumodeficiency virus (HIV), cytomogalovirus (CMV) IgG, cytomogalovirus (CMV) IgM, herpes simplex virus (types 1 and 2) IgG, rubella IgG, rubella, IgM, toxoplasma IgG, toxoplasma IgM, amebiasis, Epstein-barr carly antigen, Epstein-barr EBNA IgG, Epstein-barr VCA IgG, Epstein-barr VCA IgM, helicobacter pylori-IgG, legionella IgG/IgM/IgA, mycoplasma IgG, mycoplasma IgM, varicella zoster virus (VZV), antinuclear antibodies (ANA),

antineutrophil cytoplasmic antibodies (ANCA), anti-cardiolipin, anti-dsDNA, anti-Jo-1, anti-ScI-70, anti-Sm (Smith antigen), anti-Sm/RNP, anti-SS-A/Ro, auti-SS-B/La, extractable nuclear antigen (ENA), myeloperoxidasc IgG, proteinase-3 IgG, or Rheumatoid Factor.